$$f_1(x_1(t),x_2(t),x_3(t),\dot{x}_1(t),\dot{x}_2(t),\dot{x}_3(t),p_1,p_2,p_3)=x_1(t)-x_2(t)-x_3(t),$$
$$f_2(x_1(t),x_2(t),x_3(t),\dot{x}_1(t),\dot{x}_2(t),\dot{x}_3(t),p_1,p_2,p_3)=p_1\cdot x_1(t)+p_2\cdot x_3(t),$$
$$f_3(x_1(t),x_2(t),x_3(t),\dot{x}_1(t),\dot{x}_2(t),\dot{x}_3(t),p_1,p_2,p_3)=p_3\cdot x_2(t)-p_2\cdot x_3(t),$$

$$\underline{p}=\begin{pmatrix}p_1\\p_2\\p_3\end{pmatrix}$$

FIG. 1

$$\underline{A}=\begin{pmatrix}* & * & *\\ * & 0 & *\\ 0 & * & *\end{pmatrix}$$

$$T=\{(1,1),(2,3),(3,2)\}$$

FIG. 2

$$f_1(x_1(t), x_2(t), x_3(t), p_1, p_2, p_3) = x_1(t) - x_2(t) - x_3(t),$$
$$f_2(x_1(t), x_2(t), x_3(t), p_1, p_2, p_3) = p_2 \cdot x_3(t),$$
$$f_3(x_1(t), x_2(t), x_3(t), p_1, p_2, p_3) = -p_2 \cdot x_3(t),$$

$$\underline{p} = \begin{pmatrix} p_1 \\ p_2 \\ p_3 \end{pmatrix}$$

FIG. 3

$$\underline{\underline{A}} = \begin{pmatrix} * & * & * \\ 0 & 0 & * \\ 0 & 0 & * \end{pmatrix}$$

$$T = \{(1,1),(2,3)\}$$

$$Z = \{[2,3]\}$$

$$S = \{[1,2]\}$$

FIG. 4

A row rank with the elements 2, 3 was found.

A column rank with the elements 1, 2 was found.

FIG. 5

1/3

$$f_1(x_1(t),x_2(t),x_3(t),\dot{x}_1(t),\dot{x}_2(t),\dot{x}_3(t),p_1,p_2,p_3)=x_1(t)-x_2(t)-x_3(t),$$
$$f_2(x_1(t),x_2(t),x_3(t),\dot{x}_1(t),\dot{x}_2(t),\dot{x}_3(t),p_1,p_2,p_3)=p_1\cdot x_1(t)+p_2\cdot x_3(t),$$
$$f_3(x_1(t),x_2(t),x_3(t),\dot{x}_1(t),\dot{x}_2(t),\dot{x}_3(t),p_1,p_2,p_3)=p_3\cdot x_2(t)-p_2\cdot x_3(t),$$

$$\underline{p}=\begin{pmatrix}p_1\\p_2\\p_3\end{pmatrix}$$

FIG. 1

$$\underline{\underline{A}}=\begin{pmatrix}*&*&*\\*&0&*\\0&*&*\end{pmatrix}$$

$$T=\{(1,1),(2,3),(3,2)\}$$

FIG. 2

2/3

$$f_1(x_1(t), x_2(t), x_3(t), p_1, p_2, p_3) = x_1(t) - x_2(t) - x_3(t),$$
$$f_2(x_1(t), x_2(t), x_3(t), p_1, p_2, p_3) = p_2 \cdot x_3(t),$$
$$f_3(x_1(t), x_2(t), x_3(t), p_1, p_2, p_3) = -p_2 \cdot x_3(t),$$

$$\underline{p} = \begin{pmatrix} p_1 \\ p_2 \\ p_3 \end{pmatrix}$$

FIG. 3

$$\underline{\underline{A}} = \begin{pmatrix} * & * & * \\ 0 & 0 & * \\ 0 & 0 & * \end{pmatrix}$$

$T = \{(1,1), (2,3)\}$

$Z = \{[2,3]\}$

$S = \{[1,2]\}$

FIG. 4

A row rank with the elements 2, 3 was found.

A column rank with the elements 1, 2 was found.

FIG. 4 5